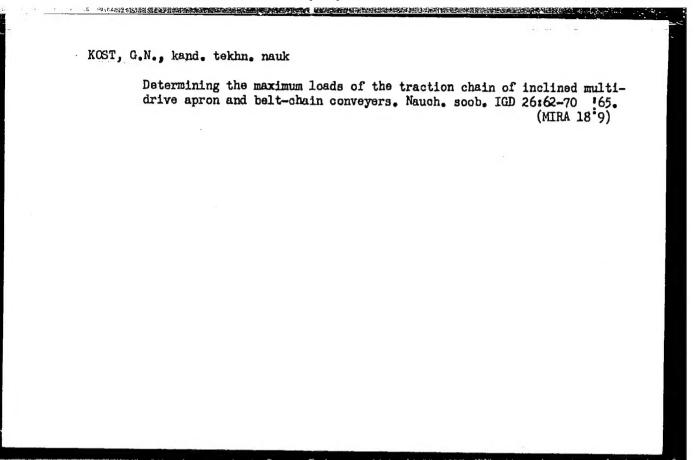
KOST, G.H., keed. telcha. mark; KOTOV, M.A., kand. tekha. nauk; KOLOYAROV,
V.K., inzh.; HELORODOV, Yu.V., inzh.

Exporimental testing of the KL-2 belt conveyer. Nauch. soob.
IGD 26:40-48 '65. (MIRA 18:9)



KCST, G.N., kand. tekhn. nauk; D'YAKOV, V.A., inzh.

Experimental testing of the elasticity of rubber rope belts in the field. Nauch, soob. IGD 26:71-74 165. (MIRA 18:9)

KOST, K.; VARTAPETYAN, B.B.

Diminished mobility of water in a partially dehydrated cell. Fiziol. rast. 12 no.3:390-393 My-Je '65. (MIRA 18:10)

l. Natsional'nyy tsentr agronomicheskikh issledovaniy, Versal', Frantsiya, i Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva.

SHEVCHUK, B.G.; KOST, L.L.

System Cs2804 - BeS04-H20 at 35°C. Zhur.neorg.khim. 10 no.11:2551-2553 N *65. (MIRA 18:12)

1. Poltavskiy inzhenerno-stroitel'nyy institut, Kafedra khimii. Submitted May 5, 1964.

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SHEVCHUK, V.G.; KOST', L.L.

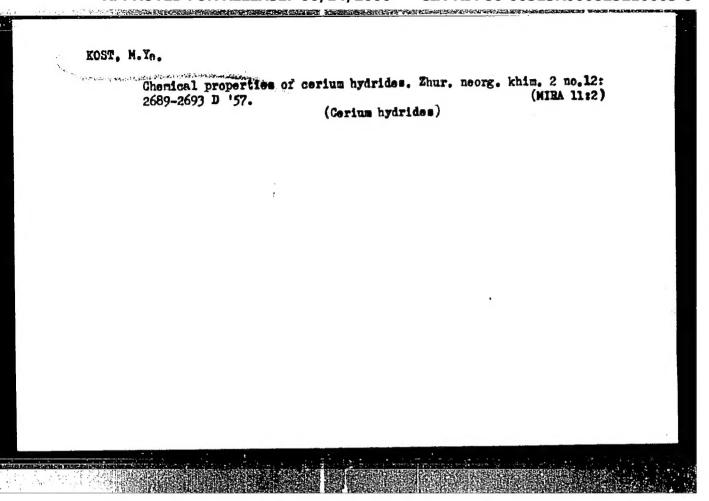
Equilibria in the systems $Cs_2SO_4 - MgSO_2 - H_2O$ and $(NH_4)_2SO_4 - MgSO_4 - H_2O$ at 35°. Thur. Heorg. khim. 9 no.2: 432-436 F'64. (MIRA 17:2)

1. Poltavskiy inzhenerno-stroitel'nyy institut, kafedra khimii.

SHEVCHUK, V.G.; KOST', L.L.

System $\text{Li}_2\text{SO}_4 - \text{K}_2\text{SO}_4 - \text{MgSO}_4 - \text{H}_2\text{O}$ at 35°C. Zhur. neorg. khim. 9 nc.5:1242-1245 My '64. (MIRA 17:9)

1. Poltavskiy inzhenerno-stroitel'nyy institut.



KOST

AUTHOR

MIKHEYEVA V.I., KOST M.Ye.

20-1-27/54

TITLE

Interaction of Cerium with Hydrogen.

(O vzaimodeystvii tseriya s vodorodom -Russian) Doklady Akad. Nauk SSSR, 1957, Vol 115, Nr 1,pp 100-102(U.S.S.R.)

PERIODICAL ABSTRACT

Metal cerium begins to absorb the hydrogen in which it is heated at 250-300° C and forms a hydride of varying composition.I.I.Zhukov asked whether there existed a cerium hydride of a stoichometric composition CeH2. It was confirmed by calorimetric investigations by K.Kialer. On that occasion a hydride CeH2 was further obtained. As initial metal for the present work cerium with a content of 2,9 Nd and Pr was used. The determination of the hydrogen connected with cerium was performed in parallel by three methods: 1) according to the amount of hydrogen absorbed (pressure drop in the system) , 2) according to the increase in weight of the cerium-metal sample , and 3) according to the hydrogen volume which escapes on solution of the hydride in diluted HCl. In the hydration it was found that, in contrast to published data, the hydration of cerium, after careful purification of the initial products, takes place at room temperature without previous heat-treatment of the sample. The composition of the product developing on this occasion varies between Cell3 and CeH3.16. This composition is independent of hydrogen pressure. The following conclusion may further be drawn from the results obtained. The curve of dependence of the hydride composition on temperature, and the curves of hydration speed confirm the formation

Card 1/2

KOST, M.Ye., Cand Chem Sci -- (diss) "Synthesis and study of certain properties of hydrides cerium." Mos, 1958, 1h pp (Acad Sci USSR. Inst of General and Inorganic hemistry im N.S. Kurnakov) 110 copies (KL, 50-58, 120)

- 17 -

On Ceric Hydrides.

78-2-2/43

 ${\rm CeH_2}$ melts at $1080^{\rm o}$ C with the beginning of decomposition. The synthesis of ceric aluminum hydride takes place according

to the following reaction:

LiCeBr_A + 3 LiAlH_A \longrightarrow Ce(AlH_A)₃ + 4 LiBr.

The synthesis of ceric-aluminum hydride confirms the existence of CeH, as a chemical compound. There are 9 figures, 1 table, and 26 references, 6 of which are Slavic.

SUBMITTED:

February 27, 1957

AVAILABLE:

Library of Congress

Card 2/2

5(2) AUTHORS:

Kost, M. Ye., Gol'der, G. A.

SOV/78-4-7-4/44

TITLE:

The Crystal Structure and Density of Cerium Hydrides (Kristal-licheskaya struktura i plotnost' gidridov tseriya)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7, pp 1488-1490 (USSR)

ABSTRACT:

Cerium hydrides with a composition of from CeH_{0.2} to CeH₃ were investigated. The trihydride was produced in an apparatus described in an earlier paper (Ref 5). The samples poor in hydrogen were obtained by heating and by sucking off the liberated hydrogen. The composition of the hydrides was determined by measuring the hydrogen liberated in a solution of hydrochloric acid. The Debye powder patterns were recorded by means of the camera RKD. The values of the lattice periods are given by table 1. Up to the composition CeH_{1.5} two cubical face—centered lattices exist, which correspond to the metal Ce and to the dihydride. The sample CeH_{1.97} shows a phase in the period 5.55 Å. A further increase of the hydrogen content leads to a reduction of the period to 5.53 Å at CeH_{2.73}. If the com-

Card 1/2

The Crystal Structure and Density of Cerium Hydrides

SOY/78-4-7-4/44

position CeH₃ is approached, the lines widen, so that exact calculation of the lattice period is rendered difficult. Because of the great sensitivity of cerium hydrides to vestiges of water, density was determined in an apparatus (Fig 1), in which argon was used as a pyknometric substance, and in which the volume of the sample was determined on the basis of a variation of pressure according to the Boyle-Mariotte law. The density of the various hydrides is given by table 2. It decreases up to the compound CeH₂, after which it rises somewhat up to CeH₃. Figure 2 gives a graphical comparison of density varieties.

Figure 2 gives a graphical comparison of density variations with the X-ray pictures, the curve of which shows the presence of two phases (metallic cerium and CeH₂) up to the compound CeH₂.

The lines of the metallic Ce then vanish. The phase with the periods 5.645 - 5.612 Å, which was observed by M. C. Auphassorho (Refs 3,4) could not be found. There are 2 figures, 2 tables, and 8 references, 2 of which are Soviet.

SUBMITTED:

April 4, 1958

Card 2/2

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(2) Authors:

Mikheyeva, V.I., Kost, M.Ye.

S/074/60/029/01/003/005 B008/B006

TITLE:

Hydrides of Rare-earth Metals

PERIODICAL:

Uspekhi khimii, 1960, Vol 29, Nr 1, pp 55-73 (USSR)

ABSTRACT:

It is attempted to generalize the existing material on the hydrides of the rare earth metals. A general method for preparing rare earth hydrides is the direct reaction between metal and hydrogen (Refs 5-8). Lately, exchange reactions in nonaqueous and aqueous media have also been applied (Refs 9-17). The synthetic of binary boron and aluminum hydrides of numerous transition metals may be regarded as proof for the existence of their monovalent hydrides (Refs 18-22). The reaction between lanthanum and hydrogen is described in references 23-42. Of the lanthanides, the most easily accessible is cerium. Therefore, the hydrides of the latter were investigated in greatest detail, the chemical and physical properties of the rare-earth metal hydrides being obtained by studying the reaction between them and hydrogen (Refs 5, 23-25, 28, 33, 44-47). Increasing research in this field after 1950 yielded new data. The kinetics of the hydrogenation of cerium are discussed in

Card 1/4

Hydrides of Rare-earth Metals

s/074/60/G29/01/003/005 B008/B006

references 5,7,27,47,49-51, the composition of cerium hydrides is reported in references 7,8,20,25,27,31,33,49,52, their dissociation pressure in references 5, 25, 32, 47, 49, their structure in references 31,35,53-56, their physical and chemical properties in references 7, 28, 31, 49, 53, 57-59 and 20, 23, 25, 45, 60 respectively. Binary cerium- and aluminum hydrides are discussed in references 18-22. The reaction of other rare earth metals with hydrogen is treated in the following papers: praseodymium references 28, 31, 32, 35, 41, 61, 62; neodymium references 24, 31, 32, 61, 62; neodymium references 23, 24, 63-66; europium L references 63,67; gadolinium L references 31,64, 68-70; ytterbium references 60,63,67. Some special features of rare earth metal hydrides are discussed in references 2,3, 8,20,32,56,58,70-92. The investigation of the composition and properties of these hydrides revealed some of the rare earth metals, which are extremely alike in certain respects, but possess certain individual peculiarities. Thus, e.g., a hexagonal structure is found for semarium- and gadolinium trihydride. Furthermore, certain facts indicate the existence of a Gd Hacompound. The properties of the europium- and ytterbium hydrides,

Card 2/4

Hydrides of Rare-earth Metals

S/074/60/029/01/003/005 B008/B006

which resemble those of the alkali earth elements, vary particularly from the properties of the other rare earth hydrides. It is evident from experimental data that both compounds of constant composition, and phases of variable composition are involved in the equilibrium of the rare earth metal - hydrogen systems. The solid MeH2 - MeHz phases, investigated for cerium and lanthanum, are of particular interest for finding the rules which are followed by the chemical compounds when entering into solution. According to N.S.Kurnakov's theory on berthollides, there exists a changing equilibrium between some valencies of the rare earth metals. Some properties of the rare earth hydrides, as e.g. the thermal stability of the dihydrides, and the change in the type of chemical bond occurring in the MeH, -MeH, region, indicate that their application in various fields of metallurgy, in heterogeneous catalytic synthesis, and in the technology of semiconductors will yield positive results. The following Soviet scientists are mentioned: V.I.Mikheyeva, M.Ye.Kost, I.I. Zhukov, and B.V. Nekrasov. There are 7 figures, 8 tables, and 92 references, 20 of which are Soviet.

Card 3/4

s/078/62/007/007/001/013 B179/B101

AUTHORS:

Mikheyeva, V. I., Kost, M. Yo.

TITLS:

Some properties of lanthanum and neodymium hydrides

FERIODICAL: Zburnal neorganicheskoy khimii, v. 7, no. 7, 1962, 1493-1499

TEXT: The hydrogenation of La, Nd, and cerium misch metal ($\sim 50\%$ Ce, 45% other RE, 2, Fe) and the properties of the hydrides were studied. La and Nd react with H₂ ($p_{\rm H_2} \sim 650$ mm Hg) even at room temperature. When La, Nd,

and misch metal were hydrogenated simultaneously the induction period for misch metal was 5 min and for La 10 min whereas for Nd it was longer than 1.5 hrs. La forms a di- and trihydride (LaH₂ and LaH₃), Nd forms a

hydride of the composition $NdH_{2.4\pm0.1}$, and the composition of the misch metal hydride is $\sim NeH_{3}$. At $100^{\circ}C$ the hydrogenation of La was unsuccessful but at $200^{\circ}C$ hydrogenation starts without induction period. The rate of hydrogenation of La shows a minimum at $300-500^{\circ}C$ and a maximum at $700^{\circ}C$. It was LaW, that reacted most intensely with $H_{2}O$ whereas hydrides with Card 1/2

S/078/62/007/007/001/013 B179/B101

Some properties of lanthanum...

lower hydrogen content hydrolyzed more slowly. Thermal decomposition of all hydrides takes place in two phases. Transition from trihydride to dihydride occurs at 150 - 620°C for misch metal, at 350 - 840°C for La. Dissociation of the dihydride sets in between 950 and 1300°C but is never complete. The density of NdH_{2.4} was found to be 6.08 \pm 0.04. Since the density of NdH₂ is 5.91 \pm 0.03 this means that further hydrogenation has the effect of contracting the crystal lattice. There are 8 figures and 5 tables.

SURMITTED: August 24, 1961

Card 2/2

35000

S/020/62/143/001/021/030 B106/B138

5,7300

AUTHOR: Kost, M. Ye.

TITLE: Yttrium hydride

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 1, 1962, 119 - 121

TEXT: The products of the hydration of yttrium were studied. Initial metallic yttrium was produced at Giredmet and contained the following impurities (in %):

Fe Ca Cu other rare earths

Fe Ca Cu other rare e Sample I 0.04 0.05 0.03 ~ 1 Sample II 0.04 0.004 0.02 ~ 8

The hydrides were produced by direct reaction of the metal with hydrogen. The hydrogen content was determined volumetrically. The impurities by other rare earths were taken into account by corresponding corrections when the hydrogen content was calculated. The experiments showed that pure yttrium (sample I) did not absorb hydrogen at room temperature. Less pure yttrium (sample II) reacts with hydrogen at lower temperatures. The results, however, are insufficiently reproduceable, and in many cases

Card 1/4

Yttrium hydride

S/020/62/143/001/021/030 B106/B138

the induction period takes such a long time that the reaction practically does not occur. The induction period was lowered by preliminary thermal treatment of the metal. The optimal conditions for hydration are obtained when the metal is vacuum heated at 400°C for 30 minutes, prior to hydration. In this case, the induction period takes only 40 - 60 min. In all cases except one yttrium absorbed hydrogen under these conditions up to the approximate composition YH1.6. When the purer metal was used the results were readily reproduceable (atomic ratio H:Y = 1.59 ± 0.02). Increase in temperature to 250°C did not influence the absorption. With sample II the results were less constant, the atomic ratio fluctuating between 1.51 and 1.84. The rise of temperature led to a marked decrease of sorption. Yttrium hydride is a blue gray brittle substance of stratified structure, which can easily be pulverized. Its density is 4.24 ± 0.15. Yttrium hydride is comparatively constant chemically. It does not change its composition in the air in the course of 1 hr and it reacts very slowly with water. Thermographic analyses showed that yttrium decomposition takes place in 2 stages. The first (at 360 - 410°C) corresponds to the delivery of hydrogen, which is excessive in relation to the composition YH. The second step (at 1100 - 1300°C) corresponds to the Card 2/4

Yttrium hydride

S/020/62/143/001/021/030 B106/B138

transition of the monohydride into metallic yttrium. This thermal decomposition differs fundamentally from that of hydrides of all other relevant rare earths so far investigated. A fundamental difference of yttrium hydride from the hydrides of other rare earths of the same composition can also be observed in X-ray analysis data. Whereas the hydrides of cerium, lanthanum, neodymium, etc., constitute a mixture of the metal with the dihydride in the Me-MeH₂ composition range, no line

characteristic of metallic yttrium was found in the Debye crystallogram of a sample of the composition YH, 6. There are 1 figure, 1 table, and 7 references: 4 Soviet and 3 non-Soviet. The reference to the Englishlanguage publication reads as follows: C. E. Holley, R. N. Mulford et al., J. Phys. Chem., 59, 1226 (1955).

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S.

Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of

Sciences USSR)

Card 3/4

Yttrium hydride

S/020/62/143/001/021/030 B106/B138

PRESENTED:

October 12, 1961, by I. I. Chernyayev, Academician

SUBMITTED:

October 12, 1961

Card 4/4

JD/JQ. EWP(q)/EWT(m)/BDS. ь 18963 -63 AFFTC/ASD

S/0020/63/151/006/1360/1363/ AP3006598 ACCESSION NR:

Vaynshteyn, E. Ye.; Bril', M. N.; Stary*y, AUTHORS:

Kost, M. Ye.

Some results of X-ray study of cerium and lanthanum TITLE:

hydrides

AN SSSR. Doklady*, v. 151, no. 6, 1963, 1360-1363 SOURCE:

TOPIC TAGS: electron bond, valence, hydrogen bond, metallic bond, La, Ce, X-ray spectra, hydride preparation,

hydride storage

ABSTRACT: Use of hydrides of rare earth elements in metallurgy, vacuum technique, and synthesis created interest for additional information concerning the physico-chemical properties of these compounds. Authors studied the hydrides LaH, 97, LaH, 86, CeH, CeH, 34, and CeH, 66 by X-ray spectrometry. Samples for investigation were prepared by

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CIA-RDP86-00513R000825210003-0

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ACCESSION NR: AP3006598

direct reaction of hydrogen and metals at room temperature. Hydrides with lower hydrogen content were prepared by heating high hydrogen-content hydrides. Hydrides were impregnated on silk cloth and sealed in polyethylene envelopes. Preparation was accomplished in a dry chamber, filled with CO₂ and operated from outside. Prepared samples were kept in a container under vacuum. Results of investigation indicate that cerium energy only partly used in formation of ionic bonds with hydrogen, while the rest of it is used to produce metallic cal conductivity with an increase of hydrogen content. Orig.

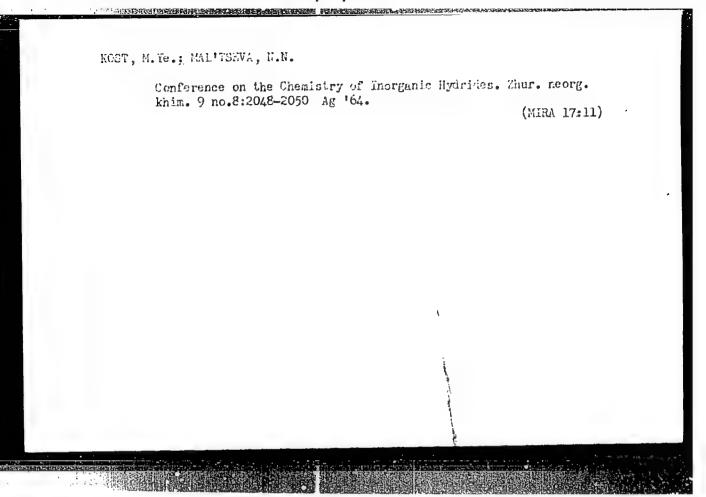
ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Division, Academy of Sciences, SSSR), Institut neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of Inorganic Chemistry, Academy of

Card 2/2/2

KOST, M.Ye.; MAL'TSEVA, N.N.; MIKHEYEVA, V.I.

Concerning the existence of iron hydride. Zhur. neorg. khim. 9 no.5:1053-1059 My '64. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.



L 17712-66 EWP(j)/EWT(m) RM/WW

ACC NRI 1/26006312

SOURCE CODE: 1/R/0413/66/000/002/0027/0027

AUTHOR: Korneyev, N.H.; Zhigach, A.F.; Kost, M. Ye.; Korotkov, Ye. N.

OR(): none

TITLE: Method of preparing triethylaluminum

29

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no.2, 1966, 27 Class 72, No. 177884

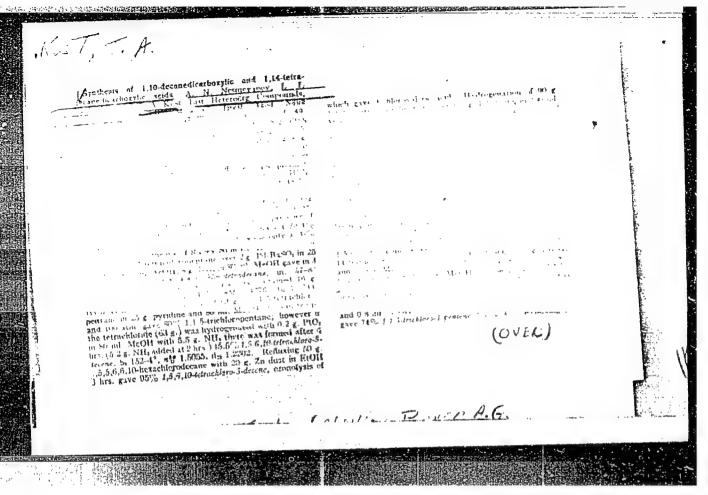
TOPT: TAGS: organic chemistry, cerium, neodymium, catalyst specific reaction

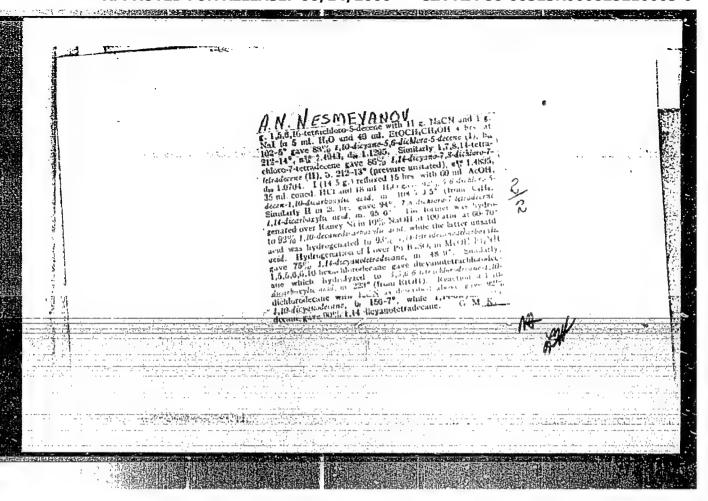
ABSTRACT: A method of preparing triethylaluminum by direct synthesis via formation of diethylaluminum hydride in the presence of a hydrogenation catalyst is presented; it is distinguished by the use of lanthanides, such as lanthanum, cerium, neodynium, or their hydrides as catalysts, for the purpose of increasing the rate of hydrogenation and the efficiency of the process.

SUB CODE: 07 / SUBM DATE: 22Nay63/ ATD PRESS: 4240

Card 1/1 nst

rinc: 547.2121256.2.05





The action of nucleophilic reagents on [Cl(CH₂)_n CCl₂-]₂ type compounds. Isv. AM SSSR, Otd. khis. nauk no.57644-646 ky '57.

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Chemical tests and reagents) (Paraffins)

86410

s/062/60/000/008/018/033/XX

5.3700

2209,1326,1282

B013/B055

AUTHORS:

Freydlina, R. Kh. and Kost, T. A.

TITLE:

Effect of Nucleophilic Reagents on Compounds of the Type

 $[C1(CH_2)_nCC1=|_2$

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 8, pp. 1387~1390

TEXT: The present paper treats the effect of nucleophilic reagents on compounds with the structure $[C1(CH_2)_nCCl=]_2$. These compounds are formed

by direct catalytic hydrogenation of $\alpha, \alpha, \alpha, \omega$ -tetrachloro alkanes (Refs. 1, 2) or by the reaction of compounds of the type $[C1(CH_2)_nCCl_2]_2$ with

zinc. α, ω -disubstituted dichloro alkenes and monosubstituted trichloro alkenes were obtained. Contrary to saturated 1,3,3,4,4,6-hexachloro hexane and 1,1,1,3-tetrachloro propane, 1,3,4,6-tetrachloro 3-hexane enters into exchange reactions with nucleophilic reagents, however, not as easily as higher compounds of this type. 1,1,1,9-tetrachloro nonane was also dimerized by hydrogenation. Starting from 1,9,9,10,10,18-hexa-Card 1/2

. X

86 410

Effect of Nucleophilic Reagents on Compounds S/062/60/000/008/018/033/XX of the Type $[C1(CH_2)_nCC1=]_2$ B013/B055

chloro octadecane several compounds containing 18 or 20 carbon atoms in the chain were obtained: 1,9,10,18-tetrachloro 9-octadecene ($C_{18}H_{32}Cl_4$); 9,10-dichloro 9-octadecene 1,18-dicarboxylic acid ($C_{20}H_{32}Cl_2O_2$); 1-hydroxy-9,10,18-trichloro 9-octadecene($C_{18}H_{33}Cl_3O$). The following compounds were prepared: 1,6-bisdiethylamino-3,4-dichloro hexene ($C_{14}H_{28}Cl_2N_2$); 1-acetoxy-3,4,6-trichloro 3-hexene ($C_{8}H_{11}Cl_3O_2$); 5,6-dichloro 5-decene 1,10-bistriethyl-ammonium diiodide ($C_{22}H_{46}Cl_2I_2N_2$); 1,10-diethoxy-5,6-dichloro-5-decene ($C_{14}H_{26}Cl_2O_2$); 1-acetoxy-5,6,10-trichloro 5-decene ($C_{12}H_{19}Cl_3O_2$); 1,14-diethoxy-7,8-dichloro 7-tetradecene ($C_{18}H_{34}Cl_2O_2$), and 1,14-diethyl-amino-6,7-dichloro 7-tetradecene ($C_{22}H_{44}Cl_2N_2$). There are 5 Soviet references.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk

SSSR (Institute of Elemental Organic Compounds of the Academy

of Sciences USSR)

SUBMITTED:

February 17, 1959

Card 2/2

FREYDLINA, R.Kh.; KOST, T.A.

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Hydrocarbons) (Acetylene compounds) (Paraffins)

KOST, N.A., prof.

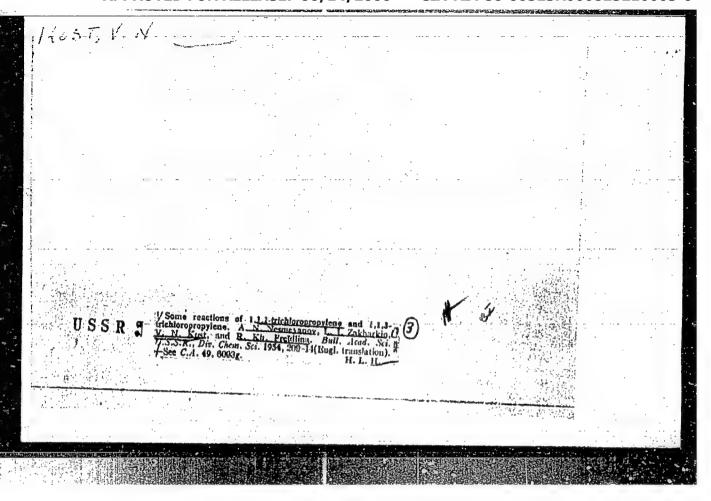
Nobel Prize for chemistry in 1965. Friroda 55 no.1:114-115 Ja 166. (NIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet.

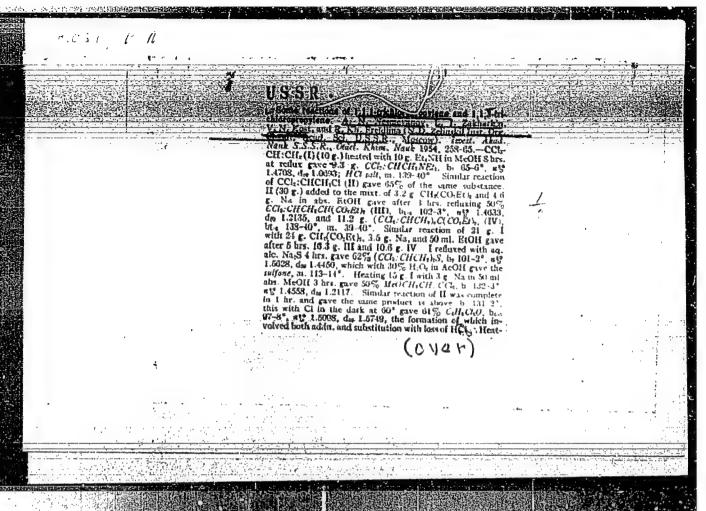
ZELINSKIY, N.D.; BONDAR', L.S.; KOST, V.N.; LIFSHITS, B.V.

Higher ramified acids. Izv.Akad.nauk SSSR; Khim.otd. no.2:96-99
Mar-Apr 51. (CLML 20:7)

1. Laboratory of Organic Chemistry imeni N.D. Zelinskiy of Moscow State University.



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210003-0"



USSR/ Chemistry Organic chemistry Card 1/1 Pub. 40 - 4/27 Authors ! Nesmeyanov, A. N., Zakharkin, L. I., Kost, V. N., and Freydlina, R. Kh. : Allyl regrouping in polychlorobutenic acids and about nertain errors Title made by Auwers and Wissebach in their work regarding silyl regrouping Periodical : Izv. AN SSSR. Otd. khim. nauk 4, 604 - 609, July - Lugust 1954 The relation of CHCl2 - CH = CH - CO2H and CCL2 = CH - CH2CO2H acids and Abstract the corresponding relation of their derivatives to prototropic allyl regrouping, was investigated. The errors made by two German chemists, K. A. Auwers and H. Wissebach, in two-stage reduction of gamma, gamma, gammatrichlorocrotonic acid into plain crotonic acid through double isomerization, are pointed out. Seven references: 3 USSR; 2 USA and 2 German (1923 - 1954). Institution : Acad. of Sc. USSR, Institute of Organic Chemistry Submitted - 1 August 23, 1>53

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CIA-RDP86-00513R000825210003-0

KOSTS V. N

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 40 - 6/26

Authors

: Freydlina, R. Kh.; Kost, V. N.; and Nesmeyanov, A. N.

Title

建筑市场中央 • Chlorination and dehydrochlorination of polychloro derivatives containing reactive groups

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 233 - 239, Mar-Apr 1955

Abstract

Investigations were made to determine the reaction of chlorine with compounds containing the dichlorsvinyl group and the reaction of dehydrochlorination of the dichloro-derivatives obtained. The results obtained during the chlorination of polychloro derivatives in hydrochloric acid media and dehydrochlorination under the effect of an alcohol solution of caustic potash are desoribed. Eleven references: 5 USA, 1 English, 1 Belgian and 4 USSR and Russian (1884-1954).

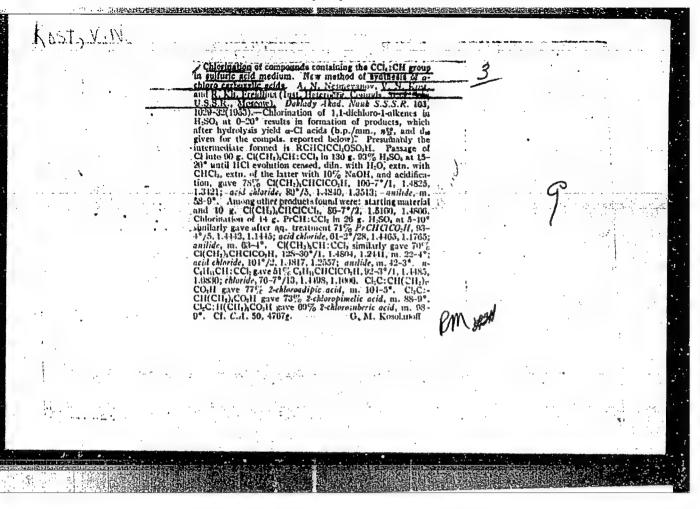
Institution: Acad. of Sc., USSR, Inst. of Organoelemental Compounds

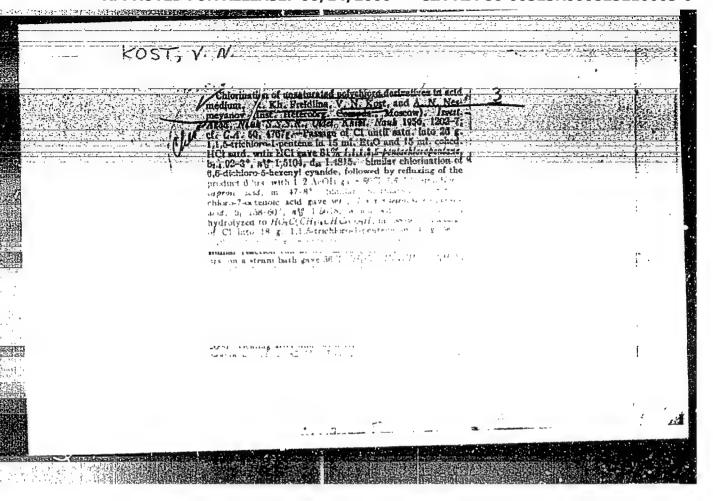
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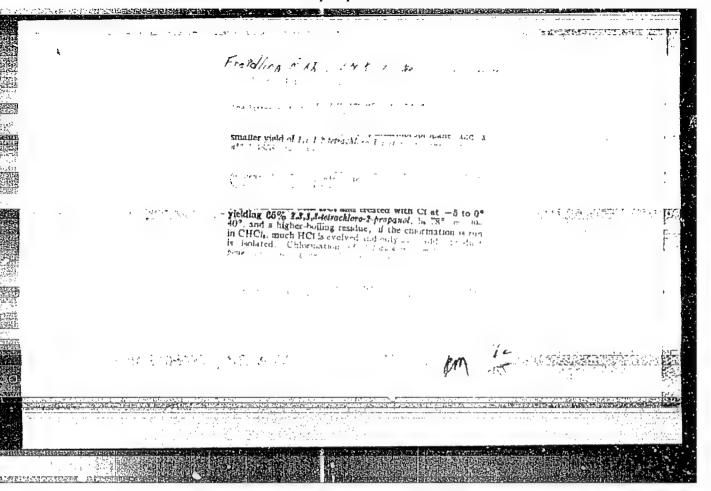
June 3, 1954

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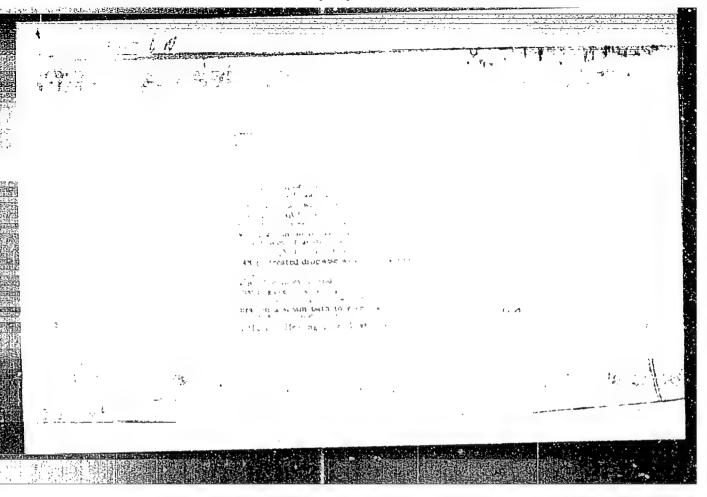
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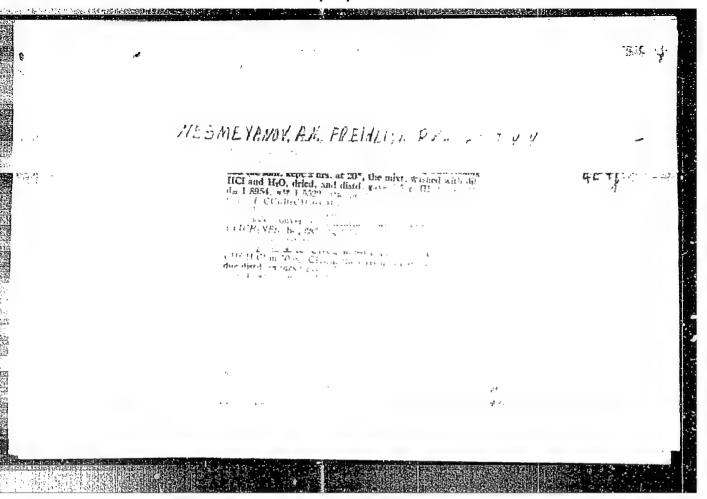




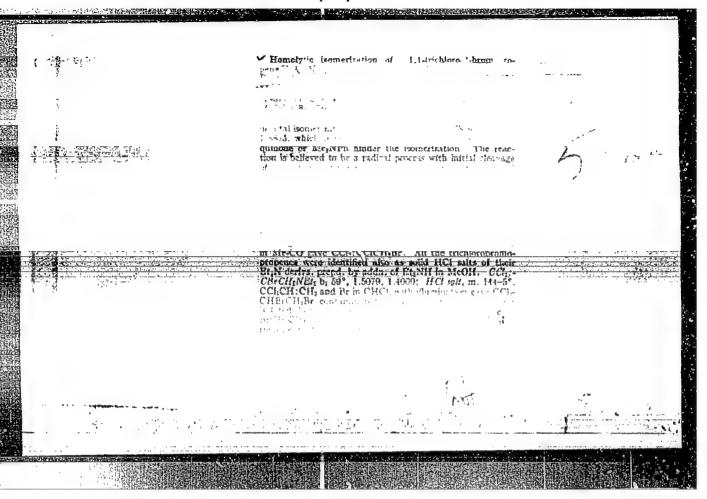


"Momolytic Isomorisation in Polyhulogenalkenes," a paper submitted at the 16th International Congress of Pure and Applied Chemistry, Paris, 18-24 July 1957.





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Kost, V. N.

AUTHORS:

Nesmeyanov, A. H., Kost, V. H.,

62-2-4/28

Vasil'yeva, T. T., Freydlina, R. Kh.

TITLE:

The Synthesis of A-Haloidcarboxylic Acids Containing Reactive Groups in the W-Position (Sintez & -Galoidkarbonovykh kislot, soderzhashchikh v W-polozhenii reaktsionnosposobnyye gruppy).

PERICDICAL:

Izvestiya AN SSSR Otdeleriye Khimicheskikh Nauk, 1958, Nr 2, pp. 152-156 (USSR).

ABSTRACT:

As was already shown (references 1,2) & -perchloric acids can easily be produced in a sulfate medium by the action of chlorine upon compounds containing a CCl2 ____ CH-group. A similar reaction also takes place in perchloric acid. In the series of cases hitherto investigated the experiment failed in the medium of phosphoric acid and acetic acid (reference 2). The employment of this method in compounds possessing no stable groups in a medium of strong acids is therefore not possible. In the present work it was found that the compounds of the type CCl2 == CX(CH2) n Y (where X is a halide or H, and where Y represents various groups) interact with acetic acid and the halide in the presence of mercury acetate after treatment with H20. On this occasion &-haloidcarboxylic acids or .

Card 1/2

The Synthesis of X-Haloidcarboxylic Acids Containing Reactive Groups in the W-Position. 62-2-4/28

a, d-dihaloidcarboxylic acids form.

In this manner the following acids were produced:

Cl(CH₂)₃CHClCOOH; Cl(CH₂)₃CHBrCOOH; CH₃ COO(CH₂)₃CHClCOOH;

 $cn(ch_2)_3$ снс1соон; ch_3 соос h_2 снс1сооси; ch_3 ос h_2 снс1соон;

 $c_6 H_5 cH_2 cHClCOOH_1 cl(cH_2)_3 ccl_2 cOOH_1$

There are 6 references, 5 of which are Slavic.

ASJOCIATION:

Institute for Element-Organic Compounds AN USSR (Institut ,

elementoorganicheskikh soyedineniy Akademii nauk SSSR).

SUBMITTED: September 25, 1956

AVAILABLE: Library of Congress

> 1. Perchloric acids 2. A.-Haloidcarboxylic acids-Synthesis

Card 2/2

AUTHORS:

Nesmeyanov, A. N., Freydlina, R. Kh., SOV/62-58-10-6/25

Kost, V.N.

TITLE:

Homolytic Isomerization of 1,1,1-Trichloro-2-Bromo Propene (Gomoliticheskaya izomerizatsiya 1,1,1-trikhlor-2-brompropena)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 10, pp 1199-1204 (USSR)

ABSTRACT:

The possibility of regrouping the free radicals in solutions has been proved in several papers (Refs 4-9). In a number of other papers (Refs 9, 11, 12) it was shown that the neopentyl radical can be isomerized. Therefore in publications data are given that contradict each other with respect to the possibility of a regrouping of the radicals (at the expense of the migration of methyl groups). In the present paper the authors report on the homolytic isomerization of 1,1,1-trichloro-2-bromo propene in 1,1,2-trichloro-3-bromo propene-1 according to the scheme

 $CC1_3CBr = CH_2 \longrightarrow CC1_2 = CC1 - CH_2Br$.

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Furthermore the authors deal with a case of homolytic isomerization of CCl₃CBr = CH₂ discovered by themselves. They

Homolytic Isomerization of 1,1,1-Trichloro-2-Bromo SOV/62-58-10-6/25 Propene

show that 1,1,1-trichloro-2-bromo propene executes the allyl regrouping (under the action of antimony pentachloride or aluminum chloride). Then 1,1,3-trichloro-2-bromo propene-1 is formed. Under the action of caustic potash on 1,1,1-trichloro-2,3-dibromo propene in ethyl-cellosolve medium the 1,1,1-trichloro-2- bromo propene was obtained as the only product of the reaction. Its isomerization takes place in a homolytic way under the action of ultraviolet rays and with a simultaneous formation of 1,1,2-trichloro-3-bromo propene; 1,1,1-trichloro propene isomerizes according to the heterolytic way under the action of antimony pentachloride with the simultaneous formation of 1,1,3-trichloro-2-bromo propene. There are 22 references, 5 of which are Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elementary Organic Compounds, Academy of Sciences, USSR)

SUBMITTED:

March 7, 1957

Card 2/2

SOV/62-58-10-7/25 Nesmeyanov, A. N., Freydlina, R. Kh., AUTHORS:

Kost. V. N.

Bromination of 1,1,1-Trichloropropene (Bromirovaniye 1,1,1-trikhlorpropena) TITLE:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, PERIODICAL:

1958, Nr 10, pp 1205-1207 (USSR)

ABSTRACT: Two of the authors mentioned above together with Firstov

described in an earlier paper the bromination of

1.1.1-trichloropropene (Ref 1). In a later paper they found the regrouping of the intermediately forming free radical (Ref 2) when investigating the reaction of hydrogen bromide and bromo-trichloromethane with 1,1,1-trichloropropene in the presence of benzoyl peroxide. It was assumed that (dependent

on the conditions of reactions) the bromination of 1.1.1-trichloropropene takes place without regrouping (electrophilic reaction) or with it (homolytic reaction). The authors of the present paper investigated the reaction of the bromination of 1,1,1-trichloropropene and obtained the following results: In highly polar media the reaction takes place well defined with the simultaneous formation of the normal

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Bromination of 1,1,1-Trichloropropene

SOV/62-58-10-7/25

combination product of 1,1,1-trichloro-2,3-dibromopropane. If

the reaction is carried out in unpolar media

1,1,2-trichloro-1,3-dibromo propane (due to the homolytic isomerization of the not intermediately formed free radical

CCl₃CH - CH₂Br \longrightarrow CCl₂CHCl - CH₂Br) is formed. There are 6 references, 5 of which are Soviet.

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR ASSOCIATION:

(Institute of Elementary Organic Compounds, Academy of

Sciences USSR)

SUBMITTED: March 7, 1957

Card 2/2

5 (3) AUTHORS:

Freydlina, R. Kh., Kost. V. N.,

SOV/62-59-5-10/40

Vasil'yeva, T. T., Nesmeyanov, A. N.

TITLE:

Synthesis of D, L-\u03c4-aminocarboxylic Acids From Compounds Containing the CCl2=CH Group (Sintez D, L-\u03c4-aminokarbenovykh kislet iz soyedineniy soderzhashchikh CCl2=CH-gruppu)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheshikh nauk, 1959, Nr 5, pp 826 - 830 (USSR)

ABSTRACT:

In this work the ammonolysis of some α -chlorocarboxylic acids was investigated which had been synthetized from tetrachlore-alkanes by the effect of sulfuric acid or acetic acid in the presence of mercury acetate. This investigation was carried out in order to find a way of synthesizing amino acids and their analogues appearing in nature from tetrachloroalkanes. The synthesis is rather difficult and, in the case of chloring derivatives, the yield is small according to data from publications. Two authors of this work and Petrov (Ref 7) succeeded in synthesizing D,L-proline and D,L-ornithine from α , δ -dichloroand α -chloro- δ -phthalimidovalerianic acid; they showed that the yield does not depend on the nature of the halogen in α -position. In this work the initial products α -chlorodipinic, α -

Card 1/3

Synthesis of D, L- α -aminocarboxylic Acids From Compounds Containing the CCl₂=CH Group

SOV/62-59-5-10/40

chloropimelic, and a-chlorosuberic acid were obtained (Ref 2); α -chloroglutaric acid and α -chloro- β -(p-chlorophenyl)propionic acid (Ref 8) and α-chloro-&-phthalimidohexanic acid were obtained under the same conditions from 1,1-dichloro-6-phthalimidohexene-1 and 1,1-dichloro-3-(p-chlorophenyl propene. The best method was that of the synthesis of α -chloro- β -phenylpropionic acid from chlorophenyldiazonium and acrylonitrile according to the Merrwein reaction (Ref 10) with subsequent hydrolysis of nitrile of α-chloro-β-phenylpropionic acid. Starting from the $\alpha,\alpha,\alpha,\omega$ -tetrachloroalkane mentioned, the following scheme is valid for the synthesis of the α -amino acids (phenylalaline, p-chlorophenylalanine, glutamic acid, α -amino-adipic acid, α -aminopimelic acid, α -aminosuberic acid, and lysine) contained in this work, which appear in nature: $\mathtt{CC1}_{3}\mathtt{CH}_{2}(\mathtt{CH}_{2}\mathtt{CH}_{2})_{\mathtt{n}}\mathtt{CH}_{2}\mathtt{CI} \rightarrow \mathtt{CC1}_{2}\mathtt{=CH}(\mathtt{CH}_{2}\mathtt{CH}_{2})_{\mathtt{n}}\mathtt{CH}_{2}\mathtt{CI} \rightarrow$ \rightarrow CCl₂=CH(CH₂CH₂)_nCH₂X \rightarrow HOOCCHCl(CH₂CH₂)_nCH₂X \rightarrow

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 \rightarrow HOOCCH.NH₂(CH₂CH₂)_nCH₂X $n = 0, 1, 2, ..., X=C_6H_5$, ClC₆H₄, COOH, C_2H_2 COOH, C_6H_4 (CO)₂N

Synthesis of D, L- α -aminocarboxylic Acids From Compounds Containing the CCl $_2$ =CH Group

SOV/62-59-5-10/40

It was also shown that the synthesis of α -chloro- β -phenylpropionic acid can be carried out by the effect of chlorine on 1,1-dichloro-3-phenylpropene-1 in a formic acid medium with a yield of 63% of the theoretical yield, that is, without addition of mercury salts if anhydrous formic acid is used. There are 19 references, 10 of which are Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

August 2, 1957

Card 3/3

5.3600

77066 \$0y/62-59-12-10/43

AUTHORS:

Kost, V. N., Sidorova, T. T., Freydlina, R. Kh.,

Nesmeyanov, A. N.

TITLE:

Synthesis of **C**I-Chlorocarboxylic Acids by Addition of Chlorine in Formic Acid to Compounds Containing the Cl₂C=CH—Group

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1959, Nr 12, pp 2122-2125 (USSR)

ABSTRACT:

The reaction

 $X (CH_2)_n CH = CCl_2 + Cl_2 \xrightarrow{HCOOH} [X (CH_2)_n CHClCCl_2OCOH] \xrightarrow{HI_1O} X(CH_2)_n CHClCOOH.$

is conducted by gradually passing chlorine through a solution of appropriate chloroolefin at 30°. The following acids were prepared in this manner: α , β -dichloropropionic acid; α -chloro- β -methoxypropionic acid; α -chloro- β -formoxypropionic acid, yield 73%, mp 66-67° (from benezene); α -chloro- δ -formoxyvaleric acid, yield

Card 1/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825210003-

Synthesis of **C** -Chlorocarboxylic Acids by Addition of Chlorine in Formic Acid to Compounds Containing the Cl₂C=CH—Group

77066 sov/62-59-12-10/43

82%, bp 138° (1.5 mm), n_D^{20} 1.4671; α , δ -dichlorovaleric acid, α , ω -dichloroenanthic acid; and α , ω -dichlorononanoic acid, yield 71%, bp 142-143° (0.5 mm), n_D^{20} 1.4768. There are 8 Soviet references.

ASSOCIATION:

Institute of Element-Organic Compounds, Academy of Sciences, USSR (Institut elementoorganicheskikh

soyedineniy Akademii nauk SSSR)

SUBMITTED:

March 25, 1958

5 (2, 3) AUTHORS:

Freydlina, R. Kh., Corresponding Member SOV/20-128-2-26/59 AS USSR, Kost, V. N., Khorlina, M. Ya., Nesmeyanov, A. N.,

Academician

TITLE:

Addition of Hydrogen Bromide to 1,1,1,2-Tetrachloropropens-2 and 1,1,2-Trichloropropens-2 in the Presence of Benzoyl Peroxide

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 2, pp 316-319 (USSR)

ABSTRACT:

The authors investigated the above topic in continuation of their own previous papers (Refs 1, 2) as well as in cooperation with L. I. Zakharkin (Ref 3) and A. B. Belyavskiy (Ref 4) on rearrangements of free radicals. The interaction between HBr and the substance mentioned first in the title led to a mixture of products. 1,1,2,2-Tetrachloro-5-bromopropane (I) with a yield of approximately 30% was isolated from the latter in addition to other compounds (II) - (IV) (see Scheme). The existence of (I) and (II) shows that the addition proceeds here with a rearrangement of the type mentioned in references 1-4. The intermediate radicals are apparently comparatively little stable and decompose under separation of a chlorine atom. The yield of (I) is therefore low, and (II) - (IV) occur in the reaction products. With respect to its composition,

Card 1/3

Addition of Hydrogen Bromide to 1,1,1,2-Tetrachlorc- SOV/20-128-2-26/59 propens-2 and 1,1,2-Trichloropropens-2 in the Presence of Benzoyl Percented

constants, and infrared spectrum, substance I is identical with the 1,1,2,2-tetrachloro-3-bromopropane produced by the authors according to another scheme (see there), it differs, however, from the 1,1,1,2-tetrachloro-3-bromopropane produced by the chlorination of the CCl2 -CH2Br with respect to constants and infrared spectrum. Ethyl cellosolve HCl is split off from substance I by treatment with alkalis, which results in the production of compound III. The latter was identified as hydrochloride of the diethyl-amine derivative CCl2 CCl-CH2N(C2H5)2 HCl (V). As far as constants and infrared spectrum are concerned, compound II corresponds to 1,1,2,2,3-pentachloropropane. Trichlorebremopropene III together with diethyl-amine and thiourea yields derivatives which were identified as hydrochloride and picrate respectively. When reacting with Hg, substance III yielded the trichloroally1mercury bromide which was identical with that produced by the usual method (Ref 5). As to its properties, tetrachloropropene IV corresponds to the well-known 1,1,2,3-tetrachloropropene, and together with diethyl-amine it yields the corresponding

Card 2/3

Addition of Hydrogen Bromide to 1,1,1,2-Tatrachloro- SOV/20-128-2-26/59 propene-2 and 1,1,2-Trichloropropene-2 in the Presence of Benzoyl Peroxide

derivative V. The addition of HBr to 1,1,2-trichloropropene-2 proceeds without rearrangement under formation of 1,1,2-trichloro-j-bromopropane (see Scheme). This reaction course is apparently connected with a greater stability of the radical A produced as against the radical CHClCCL_CH_Br which might be

produced by a rearrangement. As to its constants, composition, and infrared spectrum, substance VI, i.e. HCC_2 - CHCl - CH_2Br ,

which was produced in the last-mentioned reaction, is identical with the 1,1,2-trichlore-3-bromopropane. The isothiourea derivative furthermore obtained as ricrate is identical with the corresponding derivative synthesized from the well-known 1,1,2-trichlore-3-bromopropane. There are 8 references, 7 of which are Soviet.

SUBMITTED:

June 5, 1959

Card 3/3

\$/020/60/132/03/32/066 B011/B008

5.2200 5.3600

Kost, K. R. Sidorova, T. T., Freydlina, R. Kh., Corresponding Member AS USSR, Nesmeyanov, A. N., Academician

TITLE:

AUTHORS:

Homolytic Addition of Hydrogen Bromide to 1-Fluoro-1

1-Dichloropropene \

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 3,

pp. 606-608

TEXT: The authors determined in their paper the divergent behavior of 1-fluoro-1, 1-dichloropropene in the reaction of the homolytic addition from that of 1,1,1-trichloropropene. Two fluoro-dichloro-bromopropanes were obtained as a consequence of the reaction of the t-fluoro-1, 1-dichloropropene with HBr at an ultraviôlet exposure: 1-fluoro-1, 1-dichloro-3-bromopropane and 1-fluoro-1,2-dichloro-3-bromopropane at a ratio 2:1. The reaction proceeded as chain reaction of free radicals. The addition of HBr to 1,1,1-trichloro-propene leads, under equal conditions, to a single product: 1,1,2-trichloro-3-bromopropene.

Card 1/2

Homolytic Addition of Hydrogen Bromide to 1-Fluoro-1, 1-Dichloropropene

S/020/60/132/03/32/066 B011/B008

That means, the reaction takes its course under a regrouping in the free radical developing in the meantime (similar to the case of the initiation of the reaction by benzoyl peroxide, Ref. 4). The scheme (I) illustrates the reaction of the fluoro-dichloro-propene with HBr. Apparently, the rate of regrouping of the radical CH2BrCHCCl2F is reduced considerably due to the stabilizing action of the fluorine in it. Thus, this rate gets commensurable to that of this radical with HBr. This double mode of reaction of the free radical (with or without regrouping) is observed here for the first time. The authors proved the structure of the produced fluoro-dichloro-bromopropane on schemes (II) and (III) as well as by the production of the picrates and other reactions. There are 11 references, 9 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the

Academy of Sciences, USSR)

SUBMITTED:

February 24, 1960

Card 2/2

Rearrangements in the homolytic addition of hydrogen bromide to poly(halo alkenes). Dokl. All SSSR 137 no.2:341-344 Mr '61.

1. Institut elementoorganicheskikh soyedineniy All SSSR. Chlen-korrespondent AN SSSR (for Freydlina).

(Hydrogen bromide)

(Unsaturated compounds)

KHORLINA, M.Ya.; KOST, V.N.

Homolytic isomerization of 2-bromo-3, 3-dichloro-1-butene. Dokl.AN SSSR 137 no.5:1133-1136 Ap 161. (MIRA 14:4)

l. Institut elementoorganicheskikh soyedineniy AN SSSR. Predstavleno akademikom A.N.Nesmeyanovym. (Butene)

FREYDLINA, R.Kh.; KOST, V.N.; VASII YEVA, T.T.; NESMEYANOV, A.N., akademik

Homolytic isomerization of 1-fluoro-1, 1-dichloro-2-bromopropens.
Dokl.AN SSSR 137 no.6:1385-1388 Ap '61. (MIRA 14:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. 2. Chlenkorrespondent AN SSSR (for Freydlina).

(Propens)

8/081/62/000/014/009/039 B166/B144

AUTHORS:

Nesmeyanov, A. N., Freydlina, R. Kh., Kost, V. N., Khorlina, M. Ya., Sidorova, T. T., Petrova, R. G.,

Terent'yev, A. B.

TITLE:

Connection between the structure of polyalkylhalide radicals

and their ability to regroup in solution

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1962, 178, abstract

14Zh41 (Tr. po khimii i khim. tekhnol. [Gor'kiy], no. I,

1961, 106-115)

TEXT: A review of the authors, work on the homolytic addition of HBr, CCl_3 , Br, Er_2 , C_6H_5SH and $C_6H_5CH_2SH$ to olefins $XCCl_2CY = CH_2$ (I), where X = Cl, F, H, CH_3 and Y = H, Cl, Br, CH_3 . The results of the work show that the aforesaid reactions proceed according to the general scheme: $I + HEr \longrightarrow HCClXCYClCH_2Br + CClX = CYCH_2Br + HCClXCYClCH_2Cl$. This indicates that the initially formed polyalkylhalide radicals (PR) are Card 1/2

S/081/62/000/014/009/039 B166/B144

Connection between the structure ...

rearranged and then stabilized either by adding an H or by dehalogenation; moreover the latter leads to the chain of reaction being continued. The exception is compounds with X = F, which along with rearranged products also give products which are not rearranged. It was found that the rearrangement of PR tends towards the formation of more stable radicals. A table of the relative stability of the PR is drawn up:

CCl_CHClCH_2X > CCl_3CHCH_2X (when X = Br, Cl, CCl_3, C6H_5);

CCl_CCl (CH_3)CH_2Br > CCl_3C(CH_3)CH_2Br; CCl_2CCl_2CH_2Br > CCl_3CClCH_2Br;

CHClCHClCH_2Br > CHCl_2CHCH_2Br; CHCl_2CClCH_2Br > CHClCCl_2CH_2Br;

CH_3CClCHClCH_2Br > CH_3CCl_2CHCH_2Br; CFCl_2CHCH_2Br ≈ CFClCHClCH_2Br;

CFClCBrClCH_2Br ≈ CFCl_2CBrCH_2Br. 15 references. [Abstracter's note: Complete translation.]

Card 2/2

Regrangement of radicals in the process of dimerisation of 3,3,3-trichloroprene. Izv.AN SSSR.Otd.khim.nauk no.7:1254-1258 Jl 162.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Butadiene) (Radicals (Chemistry))

FREIDLINA, P.H. [Freydlina, P. Kh.]; KOST, V.N.; HORLINA, M.I. [Khorlina, M.Ya.]

Rearrangement of radicals in solutions. Analele chimie 17 no.3:131174 J1-S 162.

Rearrangement of radicals in solution. Usp.khim. 31 no.1: 3-38 Ja '62. (MIRA 15:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Radicals (Chemistry))

KOST. V.N.; VASIL'YEVA, T.T.; FREYDLINA, R.Kh.

Rearrangement of radicals in the process of dimerization of 3-fluoro-3,3-dichloropropene and 3-fluoro-2,3,3-trichloropropene. Dokl. AN BSSR. 7 no.8:538-542 Ag '63. (MIRA 16:10)

1. Institut eksperimental'noy optiki i spektroskopii AN SSSR.

KOST, V.N.; VASIL'YEVA, T.T.; FREYDLINA, R.Kh.

Homolytic transformations of polyhalopropenes containing the CF2Cl group. Dokl. AN ESSR 7 no.9:614-618 S '63.

(MIRA 17:1)

1. Institut elementno-organicheskikh soyedineniy AN SSSR, Moskva.

BELYAVSKIY, A.B.; KOST, V.N.

Interaction of ethylene with trihalomethanes containing chlorine and bromine. Izv.AN SSSR.Ser.khim. no.8:1514-1516 Ag '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Ethylene) (Methane)

VAS'L'YEVA, T.T.; KOST, V.N.

Action of diethylamine on polychlorofluoropropenes of CH₂=CXCF_nCl_{3-n} type. Izv. AN SSSR. Ser.khim. no.9:1587-1591 S '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Diethylamine) (Propene)

KOST. V.N.; VASIL'YEVA, T.T.; ZAKHARKIN, L.I.; FREYDLINA, R.Kh.

Introduction of the radical CCl₂ CHCH - into unsaturated molecules containing an & & -vinyl dichloride group. Izv. AN SSSR. Ser. khim. no.11:1992-1995 N '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

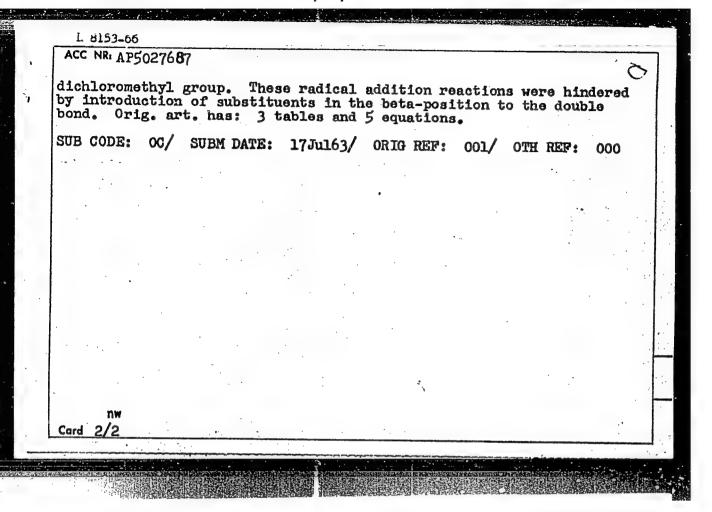
KOST; V:N.; VASIL'YEVA, T.T.; FREYDLINA, R.Kh.

Rearrangement of polyhalo alkyl radicals containing fluorine in the trihalomethyl group. Izv. AN SSSR Ser. khim. no.2:300-307 (MIRA 18:2)

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EWT(m)/EWP(1) L 8153-66 SOURCE CODE: UR/0062/65/000/010/1788/1792 ACC NRI AP5027687 (Deceased) Kh.; Khorlina, M. Ya.; Kost, N. AUTHOR: Freydlina, R. ORG: Institute of Organometallic Compounds, Academy of Sciences SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR) Homolytic reactions of the dichlorovinyl group SOURCE: AN SSSR. Izvestiya. eriya khimicheskaya, no. 10, 1965, 1788-1792 TOPIC TAGS: chemical reaction, halogenated organic compound, mixed halogenated organic compound, organic sulfur compound ABSTRACT: The radical addition of various reagents to compounds ABSTRACT: The radical addition of various reagents to compounds containing an unsymmetrical dichlorovinyl group was investigated. The addition of HBr to 1,1,3-trichloropropene-1 (A), to 1,1-dichloro-3-bromopropene-1 (B) and 1,1,5-trichloropentene-1, and of n-butylmercaptan or thiophenol to A was accomplished at low temperatures (-35 to 37 C) under ultraviolet illumination. Hydrobromination of B gave 1,1-dichlorounder ultraviolet illumination. Hydrobromination of thiophenol 2,3-dibromopropane. Reaction of A with the mercaptan or thiophenol yielded the sulfides CHC12-CH(SR)CH₂Cl, where R is butyl or phenyl. Homolytic addition of HBr and mercaptans to the dichlorovinyl group Homolytic addition of HBr and mercaptans to the dichlorovinyl group resulted in the formation of compounds containing a terminal 51,7.021,+51,1.11 Card 1/2



FREYDLINA, R.Kh.; KOST, T.A.

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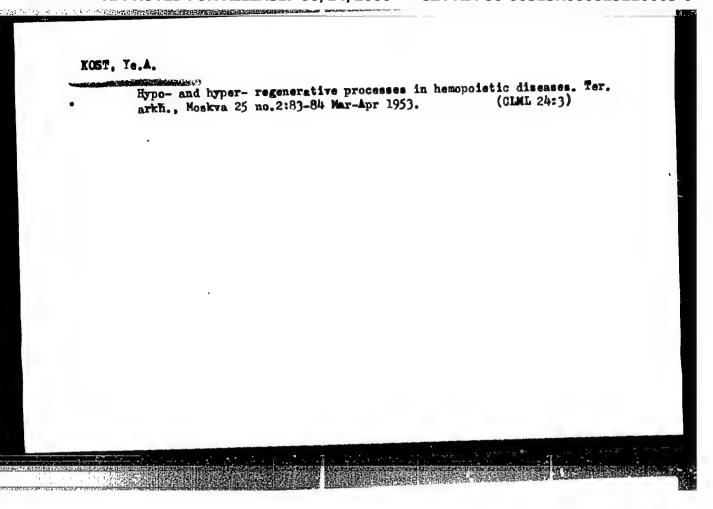
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"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825210003-0

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"APPROVED FOR RELEASE: 06/14/2000

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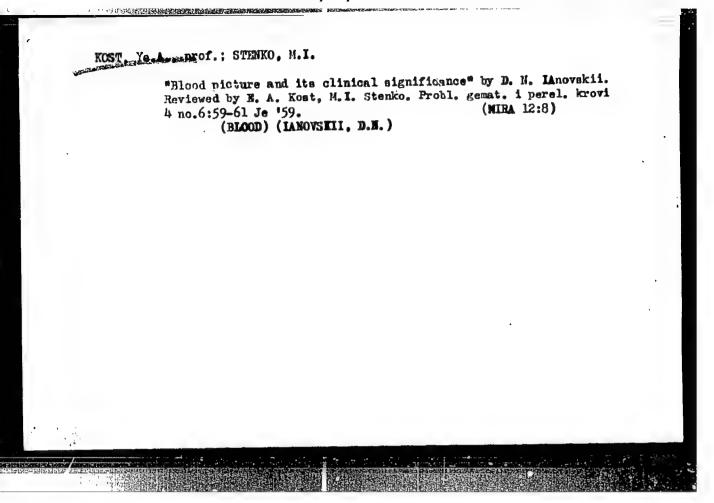
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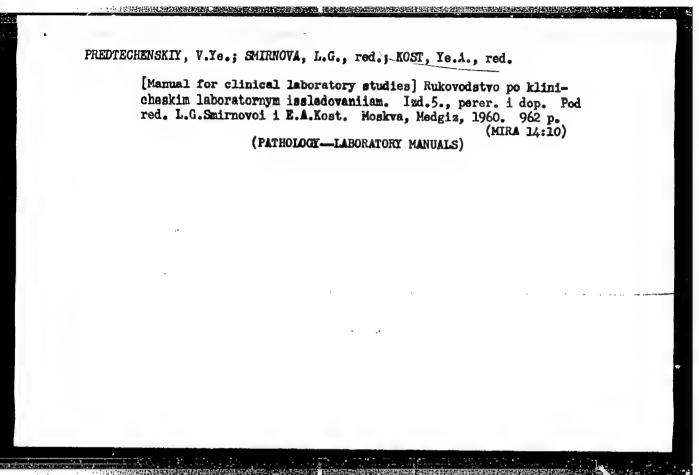
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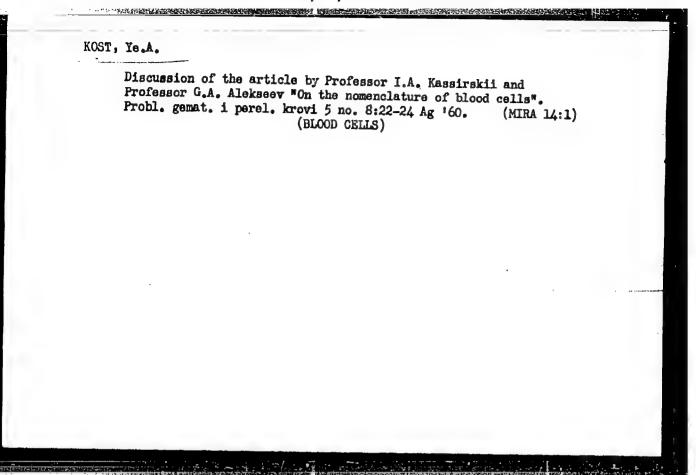
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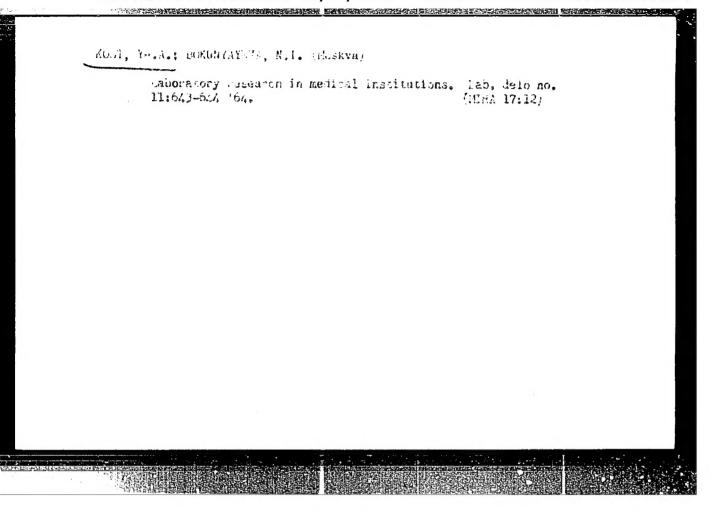
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